

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-51 (cancelled)

52. (New) A charge storage device comprising:

a charge storage cell including:

- (a) a first electrode;
- (b) a second electrode being opposed to and spaced apart from the first electrode;
and
- (c) a porous separator disposed between the electrodes;

a sealed package for containing the cell and an electrolyte in which the cell is immersed; and

at least two terminals extending from the package to allow external electrical connection to the cell, wherein the volumetric FOM of the device is greater than about 3.2 Watts/cm^3 and the maximum operating voltage of the cell is less than about 4 Volts.

53. (New) A device according to claim 52 wherein the maximum operating voltage of the cell is less than about 3.5 Volts.

54. (New) A device according to claim 53 wherein the maximum operating voltage of the cell is less than about 3 Volts.

55. (New) A device according to claim 52 wherein the volumetric FOM is in the range of about 3.2 Watts/cm^3 to 4 Watts/cm^3 .

56. (New) A device according to claim 52 wherein the volumetric FOM is in the range of about 4 Watts/cm^3 to 5 Watts/cm^3 .

57. (New) A device according to claim 52 wherein the volumetric FOM is in the range of about 5 Watts/cm^3 to 7 Watts/cm^3 .

58. (New) A device according to claim 52 wherein the volumetric FOM is in the range of about 7 Watts/cm³ to 8 Watts/cm³.

59. (New) A device according to claim 52 wherein the volumetric FOM is greater than about 8 Watts/cm³.

60. (New) A device according to claim 52 including a plurality of cells.

61. (New) A device according to claim 60 wherein the package contains the cells.

62. (New) A device according to claim 59 wherein the cells are connected in series and/or parallel with each other.

63. (New) A device according to claim 52 wherein at least one of the electrodes includes a layer containing a carbon.

64. (New) A charge storage device including:

a charge storage cell including:

- (a) a first electrode having a first layer including a carbon having a surface area greater than 400 m²/gram;
- (b) a second electrode having a second layer including a carbon having a surface area greater than 400 m²/gram; and
- (c) a porous separator disposed between the electrodes;

a sealed package for containing the cell and an organic electrolyte in which the cell is immersed, wherein the first and second layers are opposed and spaced apart; and

at least two terminals that extend from the package to allow external electrical connection to the cell, wherein the volumetric FOM of the device is greater than about 1.1 Watts/cm³ and the maximum operating voltage of the cell is less than about 4 Volts.

65. (New) A device according to claim 64 wherein the maximum operating voltage of the cell is less than about 3.5 Volts.

66. (New) A device according to claim 65 wherein the maximum operating voltage of the cell is less than about 3 Volts.

67. (New) A device according to claim 64 wherein the surface area of the carbon is at least 1200 m²/gram.

68. (New) A device according to claim 64 wherein at least one of the layers contains more than one type of carbon.

69. (New) A device according to claim 64 including a plurality of cells.

70. (New) A device according to claim 69 wherein the package contains the cells.

71. (New) A device according to claim 69 wherein the cells are connected in series and/or parallel with each other.

72. (New) A device according to claim 64 wherein at least one of the carbon layers includes particulate carbon.

73. (New) A device according to claim 64 wherein both the layers include particulate carbon.

74. (New) A charge storage device including:

a charge storage cell including:

(a) a first electrode;

(b) a second electrode being opposed to and spaced apart from the first electrode;

and

(c) a porous separator disposed between the electrodes;

a sealed package for containing the cell and an electrolyte in which the cell is immersed;

and

at least two terminals that extend from the package to allow external electrical connection to the cell, wherein the gravimetric power maximum of the device is greater than about 12.5 Watts/gram and the maximum operating voltage of the cell is less than about 4 Volts.

75. (New) A device according to claim 74 wherein the maximum operating voltage of the cell is less than about 3.5 Volts.

76. (New) A device according to claim 75 wherein the maximum operating voltage of the cell is less than about 3 Volts.

77. (New) A device according to claim 74 wherein gravimetric power maximum is greater than about 15 Watts/gram.

78. (New) A device according to claim 77 wherein gravimetric power maximum is greater than about 17 Watts/gram.

79. (New) A device according to claim 78 wherein gravimetric power maximum is greater than about 26 Watts/gram.

80. (New) A device according to claim 74 including a plurality of cells.

81. (New) A device according to claim 80 wherein the package contains the cells.

82. (New) A device according to claim 80 wherein the cells are connected in series and/or parallel with each other.

83. (New) A device according to claim 74 wherein at least one of the electrodes includes a layer containing a carbon.

84. (New) A device according to claim 83 wherein the layer contains a particulate carbon.

85. (New) A charge storage device including:

a charge storage cell having:

(a) a first electrode;

(b) a second electrode being opposed to and spaced apart from the first electrode;

and

(c) a porous separator disposed between the electrodes;

a sealed package for containing the cell and an electrolyte in which the cell is immersed;

and

at least two terminals that extend from the package to allow external electrical connection to the cell, wherein the volumetric power maximum of the device is greater than about 35 Watts/cm³ and the maximum operating voltage of the cell is less than about 4 Volts.

86. (New) A device according to claim 85 wherein the maximum operating voltage of the cell is less than about 3.5 Volts.

87. (New) A device according to claim 86 wherein the maximum operating voltage of the cell is less than about 3 Volts.

88. (New) A device according to claim 85 including a plurality of cells.

89. (New) A device according to claim 88 wherein the package contains the cells.

90. (New) A device according to claim 88 wherein the cells are connected in series and/or parallel with each other.

91. (New) A device according to claim 85 wherein at least one of the electrodes includes a layer containing a carbon.

92. (New) A device according to claim 91 wherein the layer contains a particulate carbon.

93. (New) A charge storage device including:

a charge storage cell including:

- (a) a first electrode having a first layer including a carbon having a surface area of at least about 400 m²/gram;
- (b) a second electrode having a second layer including a carbon having a surface area of at least about 400 m²/gram, the second layer being opposed to and spaced apart from the first layer; and
- (c) a porous separator disposed between the electrodes;

a sealed package for containing the cell and an electrolyte in which the cell is immersed;

and

at least two terminals that extend from the package to allow external electrical connection to the respective electrodes, wherein the gravimetric power maximum of the device is greater than about 4.8 Watts/gram and the maximum operating voltage of the cell is less than about 4 Volts.

94. (New) A device according to claim 93 wherein the maximum operating voltage of the cell is less than about 3.5 Volts.

95. (New) A device according to claim 93 wherein the maximum operating voltage of the cell is less than about 3 Volts.

96. (New) A device according to claim 93 including a plurality of cells.

97. (New) A device according to claim 96 wherein the package contains the cells.

98. (New) A device according to claim 96 wherein the cells are connected in series and/or parallel with each other.

99. (New) A device according to claim 93 wherein the surface area of the carbon is at least 1200 m²/gram.

100. (New) A device according to claim 93 wherein at least one of the layers contains more than one type of carbon.

101. (New) A device according to claim 93 wherein at least one of the layers contains a particulate carbon.

102. (New) A charge storage device comprising:

a charge storage cell including:

(a) a first electrode;

(b) a second electrode being opposed to and spaced apart from the first electrode;
and

(c) a porous separator disposed between the electrodes;

a sealed package for containing the cell and an electrolyte in which the cell is immersed;

and

at least two terminals that extend from the package to allow external electrical connection to the respective electrodes, wherein the gravimetric FOM of the device is greater than about 2.1 Watts/gram and the maximum operating voltage of the cell is less than about 4 Volts.

103. (New) A device according to claim 102 wherein the maximum operating voltage of the cell is less than about 3.5 Volts.

104. (New) A device according to claim 102 wherein the maximum operating voltage of the cell is less than about 3 Volts.

105. (New) A device according to claim 102 wherein the gravimetric FOM of the device is greater than about 2.5 Watts/gram.

106. (New) A device according to claim 105 wherein the gravimetric FOM of the device is greater than about 3 Watts/gram.

107. (New) A device according to claim 106 wherein the gravimetric FOM of the device is greater than about 3.5 Watts/gram.

108. (New) A device according to claim 107 wherein the gravimetric FOM of the device is greater than about 5 Watts/gram.

109. (New) A device according to claim 102 including a plurality of cells.

110. (New) A device according to claim 109 wherein the package contains the cells.

111. (New) A device according to claim 109 wherein the cells are connected in series and/or parallel with each other.

112. (New) A device according to claim 102 wherein at least one of the electrodes includes a layer containing a carbon.

113. (New) A device according to claim 112 wherein the layer contains a particulate carbon.